

Title (en)

METHOD OF OPERATING A VARIABLE CYCLE GAS TURBINE ENGINE

Title (de)

VERFAHREN ZUM BETRIEB EINER GASTURBINE MIT VERSTELLBAREN LEITSCHAUFELN

Title (fr)

METHODE D'OPERATION D'UN MOTEUR A TURBINE A GAZ A CYCLE VARIABLE

Publication

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Application

EP 01949022 A 20010129

Priority

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Abstract (en)

[origin: EP1122407A2] Rotary apparatus (17) for a gas turbine engine (10) comprises a rotor assembly (63) and first and second stator assemblies (55, 59) mounted coaxially with respect to each other. The first stator assembly (55) is upstream of the second stator assembly (59), and the second stator assembly (59) is upstream of the rotor assembly (63). The rotor assembly (63) comprises an annular array (64) of rotor blades (66), and each stator assembly (55, 59) comprises an annular array (56, 60) of stator vanes (58, 62). Each vane (58, 62) has a leading edge and a trailing edge. The stator assemblies (55, 59) are circumferentially translatable relative to each other between a first condition in which each of the vanes (62) of the second stator assembly (59) is substantially aerodynamically aligned with a respective one of the vanes (58) of the first stator assembly (55), and a second condition in which the vanes (58, 62) of the first and second stator assemblies (55, 59) are out of aerodynamic alignment with each other. In the first condition, at least a part of each vane (62) of the second stator assembly (59) extends beyond the trailing edge of the respective vane (58) of the first stator assembly (55). <IMAGE> <IMAGE>

IPC 8 full level

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